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| Title: Ultrasonic flowmeter and ultrasonic flow rate measurement method | | | | | | |
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| Publication Number: | 1926407 | Publication Date: | 2007. 03. 07 | | | |
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| Abstract | | | | | | |
| A flowmeter includes: a propagation time difference method unit having a sensor and a reception signal amplification control unit and a flow rate calculation unit which are connected to the sensor via a sensor selector switch; a pulse Doppler method unit having a reception signal amplification control unit and an integration calculation unit which are connected to the sensor; a transmission/reception timing control unit common to them; a measurement method selection control unit for controlling switching between the propagation time difference method unit and the pulse Doppler method unit and parallel operation; and a measurement value output selector switch for selecting the output of the propagation time difference method unit and the pulse Doppler method unit. That is, the single flowmeter can perform flow rate measurement by the propagation time difference method having no restriction on the measurement range as well as the pulse Doppler method having an upper limit of the measurement range but enabling a highly accurate measurement. | | | | | | |

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